HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SECT	TION						
Field Site No.	118-KW	OAHP No.	Date Recorded 4-Apr-98				
Site Name Historic	Rod Tip Cave						
Common							
Field Recorder	Jim Sharpe						
Owner's Name	U.S. Department of Energy, Richland Operations Office						
Address	P.O. Box 550						
City/State/Zip Code	Richland, WA 9935	i2					
X Survey/Inventory National Register State Register Determined Eligible Determined Not Eligother (HABS, HAE Local Designation	gible		Photography Photography Neg. No. (Roll No. & Frame No.) View of 105-KW Rod Tip Cave Date 6/24/98				
Classification	District	Site	x Building Structure Object				
District Status	x NR	SR	LR INV				
Contributing		Non-Contributing					
District/Thematic Nom		_	tan Project and Cold War Historic District				
Description Section	•		·				
Materials & Features/S	tructural Types		Roof Type				
Building Type	Industry		Gable Hip				
Plan	dubii y		Flat X Pyramidal				
Structural System	Concrete bunk	er	Monitor Other (specify)				
No. of Stories	-		Gambrel Mounded gravel				
Claddina (aytarian Mal	I Curtone		Shed				
Cladding (exterior Wal	Surraces		Roof Material				
Horizontal Wood Si	ding		Wood Shingle				
Rustic/Drop			Wood Shingle Wood Shake				
Clapboard	 		Composition				
Wood Shingle			Slate				
Board and Batten			Tar/Built-up				
Vertical Board			Tile				
Asbestos/Asphalt			Metal (specify)				
Brick			X Other (specify) Concrete				
Stone			Not visible				
Stucco							
Terra Cotta			Foundation				
X Concrete/Concrete	Block		Log Concrete				
Vinyl/Aluminum Sid	ling		Post & Pier Block				
Metal (specify)			Stone Poured				
Other (specify)			Brick Other (specify)				
			X Not visible				
	(Include detailed de	•					
Integrity		sical Appearance)	0.11				
01	<u> </u> 	ntact	Slight Moderate Extensive				
Changes to plan		Х					
Changes to windows	-10						
Changes to original clad	ding	X					
Changes to interior		х					
Other (specify)							

State of Washington, Department of Community Development Office of Archaeology and Historic Preservation 111 21st Avenue Southwest, Post Office Box 48343 Olympia, Washington 98504-8343 (206)753-4011

LOCATION SECTION

LUCATION SECTION							
Address Structure 105-K\	N, 100-K A	rea					
City/Town/County/Zip Code		Richland/Benton County/99352					
Twp 14 Range 26	Section	32 I/4 S	ection	SW	1/4 1/4 Sec	SE	
Tax No./Parcel No.	-				Acreage		
Quadrangle or map name	Coyote Ra	apids, Was	h. Quad. 1	1986	<u> </u>		
UTM References Zone	11	Easting	301620	Nor	rthing		5169380
Plat/Block/Lot				_			
Supplemental Map(s)							



High Styles/Forms (Check one or more of the following)							
Greek Revival	Spanish Colonial Revival/Mediterranean						
Gothic Revival	Tudor Revival						
Italianate	Craftsman/Arts & Crafts						
Second Empire	Bungalow						
Romanesque Revival	Prairie Style						
Stick Style	Art Deco/Art Moderne						
Queen Anne	Rustic Style						
Shingle Style	International Style						
Colonial Revival	Northwest Style						
Beaux Arts/Neoclassical	Commercial Vernacular						
Chicago/Commercial Style	Residential Vernacular (see below)						
American Foursquare	x Other (specify)						
Mission Revival	Industrial Vernacular						
Vernacular House Types							
Gable Front	Cross Gable						
Gable Front and Wing	Pyramidal/Hipped						
Side Gable	Other (specify)						

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)		
Agriculture Architecture/Landscape Architecture Arts Commerce Communications Community Planning/Development	Conservation Education Entertainment/Recreation Ethnic Heritage (specify) Health/Medicine Manufacturing/Industry Military	Politics/Government/Law Religion Science & Engineering Social Movements/Organizations Transportation X Other (specify) Manhattan Project and Cold War Era X Study Unit Sub Sub-Theme(s) Waste Management (Solid)
Statement of Significance		
Date of Construction 1952-1955 x In the opinion of the surveyor, this property appears to meet the x In the opinion of the surveyor, this property is located in a potential of the surveyor.		

The 118-KW Horizontal Control Rod Tip Storage Cave was located in the K-Reactor area south of the Columbia River on the Hanford Site. It was located northeast of the 105-KW Reactor Building and was constructed as part of "Project X", a large Cold War expansion effort at Hanford. The purpose of the expansion program was to generate plutonium for explosive devices as part of the nuclear arsenal. Construction of the KW-Reactor and its associated facilities took place from 1952 until 1955. All facilities constructed during this project were designed for minimum damage and quick recovery from enemy attack. The permanent facility was designed to temporarily store irradiated and radioactively contaminated horizontal control rods that contained unknown quantities of radionuclides. It operated from 1955 until 1971.

It is therefore the conclusion of the U.S. Department of Energy that the 105-KW Horizontal Control Rod Tip Storage Cave is eligible for inclusion in the National Register of Historic Places under Criterion A as a contributing property within the Hanford Site Manhattan Project and Cold War Historic District.

Description of Physical Appearance

The construction of the concrete bunker shaped storage area was undertaken by pouring a concrete slab, burying pipe, adding doors, and covering the pipe with fill material. Initial construction of the structure began by pouring a concrete slab 60 feet long by 8 feet wide. Following the completion of the concrete slab, two sections of 24 inch pipe were cut in half lengthwise and laid open side down on the concrete slab. Winged concrete vertical walls and steel doors were added to each end of the pipes. The pipes were then covered with 6 feet of fill material forming a long tunnel. Berm width following the completion of the fill material was about 25 feet. Overall, the rod tip cave is about 70 feet long by 3 feet high by 6 feet wide with triangular shaped cement ends 7 feet high. The facility is entirely above ground and was used to store irradiated and radioactively contaminated horizontal control rods.

Major Bibliographic References

Westinghouse Hanford Company. 1994. 100-K Area Technical Baseline Report. WHC-SD-EN-TI-239. Richland, Washington. UNC Nuclear Industries. 1984. 100 Deactivated Area Pictorial Review. UNI-2780. Richland, Washington.